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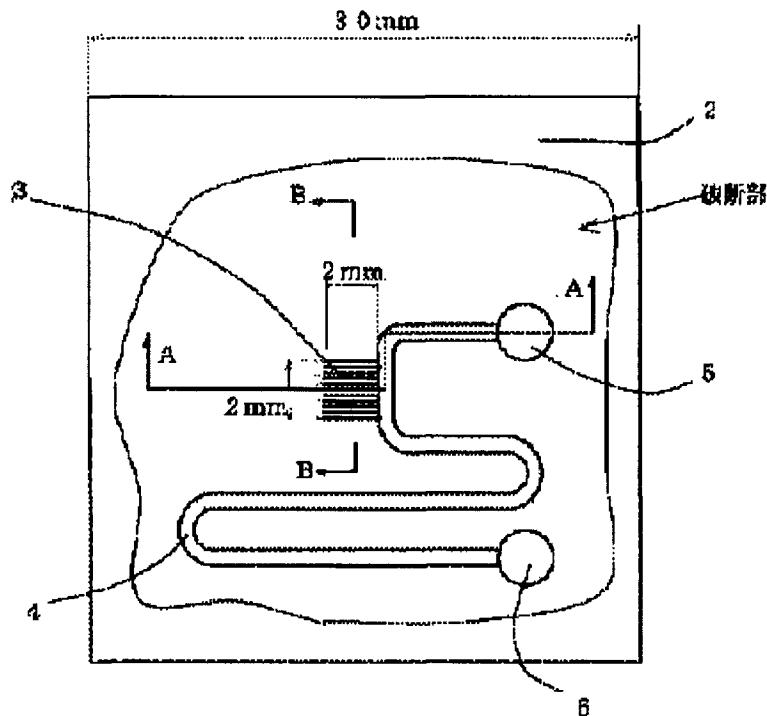
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 IncludeNo 30964
matt**MicroPatent® PatSearch FullText:** Record 639 of 762

Search scope: US Granted US Applications EP-A EP-B WO JP DE-A DE-C GB-A ; Full patent spec.

Years: 1990-2003

Text: grating and (liquid or fluid) US or Int'l Class: g11b007* or g02b00518

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ELEMENT FOR CONVERTING FLUID (^) PRESSURE INTO OPTICAL CHARACTERISTICS, AND MANUFACTURING METHOD OF THE ELEMENT
 NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL & TECHNOLOGY

Inventor(s): HOSOKAWA KAZUO ; MAEDA RYUTARO

Application No. 2000372854 JP2000372854 JP, Filed 20001207, A1 Published
 20020621 Published 20020621

Abstract: PROBLEM TO BE SOLVED: To measure pressure in the small channel of a microfluid element by integrating the fine channel and a pressure detecting section.

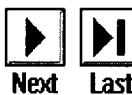
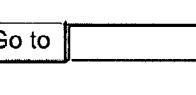
SOLUTION: In the element for converting fluid (^) pressure to optical characteristics, two plates where at least one of them is transparent are laminated, a diffraction grating (^) and the channel are provided at the junction interface so that both of them communicate with each other, and the deformation of the diffraction grating (^) due to changes in the inner pressure of the channel is taken out, as a change in the optical characteristics of the diffraction grating. (^)

Int'l Class: G01L00900; G01F00100 G01F00134 G02B00518

Patents Citing this One: No US, EP, or WO patents/search reports have cited this patent.

MicroPatent Reference Number: 000174448

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